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A look-up table VLSI design methodology for RNS structures used in DSP applications

Bayoumi, M. Jullien, G. Miller, W.

This paper appears in: **Circuits and Systems, IEEE Transactions on**

On page(s): 604- 616

Volume: 34, Issue: 6, Jun 1987

ISSN: 0098-4094

Abstract:

In current high-speed digital signal-processing (DSP) architectures, the Residue Number System (RNS) has an important role to play. RNS implementations have a highly modular structure, and are not dependent upon large binary arithmetic elements. RNS implementations become more attractive when combined with the advantages offered by VLSI fabrication technology. In this paper, a novel design methodology has been developed for RNS structures, based on using look-up tables, which takes into consideration the unique features and requirements of RNS. The paper discusses the following three phases: 1) developing a look-up table layout model, which is used to derive relationships between the size of each modulus and both chip area and time; this model supports all types of moduli; 2) selecting the most efficient layout according to the design requirements; the procedure allows the designer to control the area, time, or the configuration of the memory module required for implementing a modulo look-up table; 3) proposing a set of multi-look-up table modules, to be used as building block units for implementing digital signal-processing architectures. The paper uses two examples to -illustrate the use of the modules in phase 3).

Index Terms:

DSP Digital signal processing (DSP) Residue arithmetic Signal processing VLSI
Very large-scale integration (VLSI)

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Putting routing tables in silicon

Pei, T.-B. Zukowski, C.

Dept. of Electr. Eng., Columbia Univ., New York, NY;

*This paper appears in: **Network, IEEE***

On page(s): 42-50

Volume: 6, Issue: 1, Jan 1992

ISSN: 0890-8044

References Cited: 17

CODEN: IENEET

INSPEC Accession Number: 4119305

Abstract:

Moving routing tables from RAM to custom or semicustom VLSI can lower cost and boost performance. The routing table problem is presented by discussing the available architectures and how they are related. It is shown that simple table lookup is just a special case of the standard trie structure and that the use of partitioning combined with the trie structure provides a continuum that can lead to a CAM implementation at one extreme. The high-level tradeoffs in the choice of various parameters for the trie are estimated. A careful choice of word size can balance the requirements for speed with the costs of area. Also considered are the costs and benefits of splitting the table into a number of tries, which are searched simultaneously. VLSI implementations are outlined, and the costs are compared. General CAM structures are not needed for the routing table application, and custom CAMs can be very efficient. Tries, however, can be competitive in many cases, due to the resources available for building conventional memories

Index Terms:

VLSI silicon switching networks table lookup telecommunication networks CAM RAM Si communication networks costs custom VLSI memories partitioning routing tables semicustom VLSI table lookup trie structure word size

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Optimal table lookup schemes for VLSI implementation of input/output conversions and other residue number operations

Parhami, B. Hung, C.Y.

Dept. of Electr. & Comput. Eng., California Univ., Santa Barbara, CA;

*This paper appears in: **VLSI Signal Processing, VII, 1994., [Workshop on]***

10/26/1994 - 10/28/1994, 1994

Location: La Jolla, CA, USA

On page(s): 470-481

1994

References Cited: 9

Number of Pages: xii+511

INSPEC Accession Number: 5111885

Abstract:

Residue number representation has become a viable alternative for fast, area-efficient VLSI realization of high-performance signal processing hardware. Wider applicability and improved cost/performance of residue-based VLSI implementations of signal processing algorithms are critically dependent on efficient realization of I/O data conversions and several other support functions that are treated in this paper. Alternate table-lookup schemes for conversion of binary to residue numbers, and vice versa, are presented. Input widths of lookup tables can be changed freely through a repartitioning scheme to provide tradeoffs between table size (area) and computation speed. Improved variants of VLSI-based pipelined binary-to-residue converters are derived along with balanced, highly regular, pipelined architectures for residue-to-binary conversion in VLSI. The input repartitioning method is shown to be applicable to other important residue number system operations, including sign detection, mixed-radix conversion, and base extension

Index Terms:

I/O data conversions VLSI area-efficient VLSI realization base extension computation speed high-performance signal processing hardware input repartitioning method input/output conversions mixed-radix conversion parallel architectures pipeline processing pipelined architectures pipelined binary-to-residue converters repartitioning scheme residue number operations residue number systems residue-based VLSI implementations residue-to-binary conversion sign detection signal processing support functions table lookup table lookup schemes table size I/O data conversions VLSI area-efficient VLSI realization base extension computation speed high-performance signal processing hardware input repartitioning method input/output conversions mixed-radix conversion parallel architectures pipeline processing pipelined architectures pipelined binary-to-residue converters repartitioning scheme residue number operations residue

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FlowMap: an optimal technology mapping algorithm for delay optimization in lookup-table based FPGA designs

Cong, J. Yuzheng Ding

Dept. of Comput. Sci., California Univ., Los Angeles, CA;

This paper appears in: **Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on**

On page(s): 1-12

Volume: 13, Issue: 1, Jan 1994

ISSN: 0278-0070

References Cited: 28

CODEN: ITCSDI

INSPEC Accession Number: 4619817

Abstract:

The field programmable gate-array (FPGA) has become an important technology in VLSI ASIC designs. In the past few years, a number of heuristic algorithms have been proposed for technology mapping in lookup-table (LUT) based FPGA designs, but none of them guarantees optimal solutions for general Boolean networks and little is known about how far their solutions are away from the optimal ones. This paper presents a theoretical breakthrough which shows that the LUT-based FPGA technology mapping problem for depth minimization can be solved optimally in polynomial time. A key step in our algorithm is to compute a minimum height K-feasible cut in a network, which is solved optimally in polynomial time based on network flow computation. Our algorithm also effectively minimizes the number of LUT's by maximizing the volume of each cut and by several post-processing operations. Based on these results, we have implemented an LUT-based FPGA mapping package called FlowMap. We have tested FlowMap on a large set of benchmark examples and compared it with other LUT-based FPGA mapping algorithms for delay optimization, including Chortle-d, MIS-pga-delay, and DAG-Map. FlowMap reduces the LUT network depth by up to 7% and reduces the number of LUT's by up to 50% compared to the three previous methods.

Index Terms:

VLSI delays logic CAD logic arrays minimisation of switching nets table lookup Boolean networks FlowMap VLSI ASIC delay optimization depth minimization field programmable gate-array lookup-table based FPGA design minimum height K-feasible cut network flow computation optimal technology mapping algorithm polynomial time

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Issues in the implementation of the i486 cache and bus

Grochowski, E. Shoemaker, K.

Intel Corp., Santa Clara, CA;

This paper appears in: **Computer Design: VLSI in Computers and Processors, 1989. ICCD '89. Proceedings., 1989 IEEE International Conference on**

10/02/1989 -10/04/1989, 2-4 Oct 1989

Location: Cambridge, MA , USA

On page(s): 193-198

2-4 Oct 1989

References Cited: 3

IEEE Catalog Number: 89CH2794-6

INSPEC Accession Number: 3730535

Abstract:

To meet its performance goal of executing most instructions in a single clock, the i486 microprocessor uses a cache memory that is integrated on the silicon die as the processor. The integrated cache is capable of performing one memory read or write each clock cycle. The size and organization of the cache were selected based on available silicon area and on the results of trace-driven simulation. An external bus was devised featuring burst data transfers to quickly fill cache lines and provisions to ensure cache coherency

Index Terms:

[buffer storage](#) [microprocessor chips](#) [Intel i486 microprocessor](#) [burst data transfers](#)
[bus](#) [cache coherency](#) [i486 cache](#) [silicon die](#) [trace-driven simulation](#)

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